

U.S. Patent Application Serial No. 10/030,095
Amendment dated August 5, 2003
Reply to Office Action of May 6, 2003

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3 (canceled):

Claim 4 (currently amended): The multi-layer resin tube according to claim 2 10, wherein the body layer comprises a polyamide.

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Claim 5 (currently amended): The multi-layer resin tube according to claim 4 10, wherein the barrier component is ~~based on~~ a fluorine resin, and the adhesive component is ~~based on~~ a modified fluorine resin.

Claim 6 (currently amended): The multi-layer resin tube according to claim 5 10, wherein the barrier component is ~~based on~~ an ethylene-tetrafluoroethylene copolymer (~~referred to hereinafter as "ETFE"~~) and the adhesive component is ~~based on~~ a modified ethylene-tetrafluoroethylene copolymer (~~referred to hereinafter as "modified ETFE"~~).

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Claim 7 (currently amended): The multi-layer resin tube according to claim 6 10, wherein the barrier component is ~~based on~~ an ethylene-tetrafluoroethylene copolymer blended with a conductive filler (~~referred to hereinafter as "conductive ETFE"~~).

Claim 8 (currently amended): The multi-layer resin tube according to claim 7 10, wherein the conductive filler is carbon black.

Claim 9 (canceled): ✓

Claim 10 (new): A multi-layer resin tube used as a fuel tube for automobiles, the multi-layer resin tube comprising:

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a body layer of a thermoplastic resin; and

a barrier layer provided inside the body layer, the barrier layer comprising a plurality of fractional layers, each of the fractional layers including an adhesive component and a barrier component for controlling fuel permeability, the barrier layer comprising:

an outermost fractional layer attached to the inside surface of the body layer;

an innermost fractional layer including the inside surface of the multi-layer resin tube, and

optionally, an intermediate fractional layer between the outermost fractional layer and the innermost fractional layer,

wherein the outermost fractional layer includes the adhesive component at a concentration higher than that of the innermost fractional layer, and wherein the outermost fractional layer includes the barrier component at a concentration smaller than that of the innermost fractional layer.

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Claim 11 (new): The multi-layer resin tube according to claim10, wherein the outermost fractional layer includes the barrier component at a concentration of 0.1 to 30 % by weight, and wherein the innermost fractional layer includes the adhesive layer at a concentration of 0.1 to 30 % by weight.

Claim 12 (new): The multi-layer resin tube according to claim10, wherein the outermost fractional layer includes the barrier component at a concentration of 1 to 10 % by weight, and wherein the innermost fractional layer includes the adhesive layer at a concentration of 0.5 to 3 % by weight.
